



Analytical Laboratory

13339 Hagers Ferry Road Huntersville, NC 28078-7929 McGuire Nuclear Complex - MG03A2 Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number:	J10120028				
Project Name:	NPDES - QUARTERLY				
Customer Name(s):	Sue Wallace, Matthew Dor	n, Mark Harper, Todd	l Spade, Tara Thor	mas	
Customer Address:	11021 BROWER RD.				
	NORTH BEND, OH 45052				
Lab Contact:	Therona T James	Phone:	980-875-4795		
Report Authorized By: (Signature)		Dat	e:	12/16/2010	

Program Comments:

NPDES Quarterly - December

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with an "X" or "1" indicate a deviation from the method quality system or quality control requirement. All results are reported on a dry weight basis unless otherwise noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications: North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

The results in this report meet NELAP requirements through New York State Department of Health Certification # 11717. Certified parameters are designated with an "N" in the analytical report.

Sample ID's & Descriptions:

Sample ID Plant/Station		Collection Date and Time	Collected By	Sample Description	
2010012758	MIAMI-FORT	07-Dec-10 8:45 AM	Mark Harper	OUTFALL 002	
2010012759	MIAMI-FORT	07-Dec-10 8:07 AM	Mark Harper	OUTFALL 608	
2 Total Samples					

Technical Validation Review

Checklist:

		COC and .pdf report are in agreement with sample and analyses (compliance programs and procedure	✓ Yes	□ No	
		All Results are less than the laboratory reporting lim	nits.	Yes	✓ No
		All laboratory QA/QC requirements are acceptable.		✓ Yes	☐ No
	The Vendor Laboratories have been qualified by the Analytical Laboratory		e	N/A	
Rep	ort S	Sections Included:			
	✓ Jo	ob Summary Report	☐ Sub-conti	acted Laborat	ory Results
	✓ Sa	ample Identification	Customer	Specific Data	Sheets, Reports, & Documentation
	✓ Te	echnical Validation of Data Package	☐ Customer	Database En	tries
	✓ A	nalytical Laboratory Certificate of Analysis	☐ Test Case	e Narratives	
	☐ Aı	nalytical Laboratory QC Report	✓ Chain of 0	Custody	
			☐ Electronic	Data Delivera	able (EDD) Sent Separately

Reviewed By: Jenny A Herman Date: 12/16/2010

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J10120028

Site: OUTFALL 002

Sample #:

2010012758

Collection Date: 07-Dec-10 8:45 AM

Matrix:

NPDES

					Matrix			
Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst	
AMMONIA (COLORIMETRIC)								
Ammonia (Colorimetric)	0.43	mg-N/L	N	0.02	EPA 350.1	10-Dec-10 11:41	BGN9034	
TOTAL KJELDAHL NITROGEN (COLORIMETRIC)								
Total Kjeldahl Nitrogen (Colorimetric)	1.1	mg-N/L	N	0.1	EPA 351.2	11-Dec-10 12:59	BGN9034	
TOTAL DISSOLVED SOLIDS								
TDS	1000	mg/L	N	10	SM2540C	10-Dec-10 13:00	CLEEMAN	
Site: OUTFALL 608 Sample #: 2010012759								
Collection Date: 07-Dec-10 8:07 AM					Matrix:	NPDES		

Collection Date: 07-Dec-10 8:07 AM

Analyte Result Units Qualifiers **RDL** Method Analysis Date/Time **Analyst ALKALINITY (FIXED END POINT 4.5)** Alkalinity (mg/L CaCO3) 1800 mg/L Ν 0.1 SM2320B 09-Dec-10 10:21 **CLEEMAN** (CaCO3) **INORGANIC IONS BY IC** Chloride mg/L EPA 300.0 09-Dec-10 14:07 **CLEEMAN** 7300 Ν 100 Fluoride 22 mg/L Ν 10 EPA 300.0 09-Dec-10 14:07 **CLEEMAN** Sulfate 200 EPA 300.0 09-Dec-10 14:07 **CLEEMAN** 13000 mg/L Ν **TOTAL METALS BY ICP** Boron (B) 0.5 EPA 200.7 10-Dec-10 13:18 DJSULL1 478 mg/L Ν Iron (Fe) 0.01 EPA 200.7 10-Dec-10 13:18 DJSULL1 0.089 mg/L Ν Manganese (Mn) 0.685 mg/L 0.005 EPA 200.7 10-Dec-10 13:18 DJSULL1 **TOTAL RECOVERABLE METALS BY ICP-MS** 20 EPA 200.8 **KRICHAR** Arsenic (As) < 20 ug/L Ν 10-Dec-10 12:50 Barium (Ba) 96.1 ug/L Ν 20 EPA 200.8 10-Dec-10 12:50 **KRICHAR** Cadmium (Cd) < 20 20 **EPA 200.8** 10-Dec-10 12:50 **KRICHAR** ug/L Ν Chromium (Cr) < 20 ug/L Ν 20 EPA 200.8 10-Dec-10 12:50 **KRICHAR** Copper (Cu) ug/L Ν 20 **EPA 200.8** 10-Dec-10 12:50 **KRICHAR** < 20 Lead (Pb) < 20 20 EPA 200.8 10-Dec-10 12:50 **KRICHAR** ug/L Ν Zinc (Zn) < 40 ug/L Ν 40 EPA 200.8 10-Dec-10 12:50 KRICHAR **TOTAL DISSOLVED SOLIDS TDS** 33000 mg/L Ν 10 SM2540C 10-Dec-10 13:00 **CLEEMAN TOTAL SUSPENDED SOLIDS** TSS 17 Ν 5 SM2540D 09-Dec-10 14:35 **TJA7067** mg/L

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM Analytical Laboratory Analytical Laboratory Use Only Duke Energy Analytical Laboratory Page 5 of Page ____ of Duke Energy_™ Sample Class NPDES Mail Code MGO3A2 (Building 7405) DISTRIBUTION 13339 Hagers Ferry Rd ORIGINAL to LAB. SAMPLE PROGRAM Ground Huntersville, N. C. 28078 COPY to CLIENT Water_ **NPDES** Fax: Drinking Water UST 2)Phone No: MIAMI-FORT NPDES Quarterly RCRA Waste (Quarterly Sampling - December 7) Cooler Temp (C) 15Preserv.:1=HCL 4)Fax No: 2=H-SO4 3=HNO3 Sue Wallace, Tara Thomas 4=lce 5=None 4 2 3 4 16 Analyses Required MR# 7)Resp. Center To: 5)Business Unit: ŭ As, Fe, Ba, B, Mn, Zn, Cd, Pb, C 10)Mail Code: 9)Activity ID: 8)Project ID: Customer to complete all **Alkalinity** appropriate non-shaded areas. F, SO4 TKN, NH3 ¹⁴Collection Information 18Grab LAB USE ONLY ¹²Chem TSS, TDS ਹੱ ¹³Sample Description or ID Desktop No. Date X Outfall 002 X 2 Outfall 608 Customer to sign & date below - fill out from left to right. 2) Accepted By ²²Requested Turnaround Customer, IMPORTANT! Please indicate desired turnaround. Date/Time 8)Accepted By: 7)Relinquished By 10) Seal/Lock Opened By Date/Time * Add. Cost Will Apply 12-7-10 12)Seal/Lock Opened By added to metals (a)